CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Hebbal Sub Division,
BBMP.

09th September 2013

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Providing flooring and improvements to Govt Model School in Ward No. 18.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Lab Incharge
Civil Tech Labs

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TEST REPORT ON FINE AGGREGATES Ref:IS:383/2386

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh

Sample	Date of Testing	Specific Gravity	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970				Grading Zone
					ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
Fine Aggregates	09/09/2013	2.55	10	100	100	100	100	100	II
			4.75	98.6	90-100	90-100	90-100	95-100	
			2.36	84.2	60-95	75-100	85-100	95-100	
			1.18	65.3	30-70	55-90	75-100	90-100	
			0.6	48.2	15-34	35-59	60-79	80-100	
			0.3	22.1	5-20	8-30	12-40	15-50	
			0.15	7.9	0-10	0-10	0-10	0-15	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

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TEST REPORT ON CEMENT

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh

Tests on Cement	Test Date	Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112 1989	Remarks
			IS Code	Method	Value	Unit		
	09/09/2013	Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
		Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
		Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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TEST REPORT ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
40mm Down Graded	09/09/2013	2.66	0.29	80	100	100	Satisfies The Requirements
				40	99.1	95-100	
				20	55.3	30-70	
				10	23.9	10-35	
				4.75	3.3	0-5	

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TEST REPORT ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
20mm Down Graded	09/09/2013	2.62	0.33	**40**	100	**100**	Satisfies The Requirement
				20	98.6	**95-100**	
				10	44.1	**25-55**	
				4.75	8.2	**0-10**	

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TEST REPORT ON REINFORCEMENT STEEL BARS 10mm

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh
Date of Testing	09/09/2013

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	421	415	Satisfactory
6	U T S (N/Sq.mm)	526	485	Satisfactory

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TEST ON BRICKS Ref: IS:1077:1993(Rev 5)

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Name of Work:	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency Name	Sri. Ramesh

Sl. No.	Date of Test	Description	Result	Specifications	Remarks
1	09/09/2013	Compressive Strength (in N/Sq.mm)	5.25	Class Designation 5 (Avg Compressive Strength Should not be Less Than 5 N/Sq.mm)	Satisfies Requirement
2		Water Absorption '%'	16.8	Max. 20 %	Satisfies Requirement

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T-2654

To,

Assistant Executive Engineer,
Hebbal Sub Division,
BBMP.

09th October 2013

Dear Sir,

Sub: Providing flooring and improvements to Govt Model School in Ward No. 18. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Lab Incharge
Civil Tech Labs

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TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Hebbal Sub Division, BBMP.
Project	Providing flooring and improvements to Govt Model School in Ward No. 18.
Agency	Sri. Ramesh
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959(Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-Work	11/09/2013	09/10/2013	28	8.20	490	21.78	22.00
2					8.19	495	22.00	
3					8.22	500	22.22	

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